

# METHOD FOR DETECTING AN UNBALANCED DISC

## Abstract

A CD drive has a pick-up head for reading data of an optical disc, and a motor for rotating the optical disc. The method first adjusts the rotary speed of the motor so that the vibration frequency of the CD drive is approximately the resonance frequency of a coil of the pick-up head. Then, when the vibration frequency of the CD drive is approximately the resonance frequency of the coil of the pick-up head, the method detects if the voltage of a central error (CE) signal of the CD drive is greater than a threshold voltage. Finally, the method determines if the optical disc is an unbalanced disc according to the comparison result.